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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,469	03/26/2004	Joan Vermeersch	227964	3990

23460 7590 01/11/2006

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CHICAGO, IL 60601-6780

EXAMINER
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LEE, SIN J

ART UNIT	PAPER NUMBER
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1752

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

10

<b>Office Action Summary</b>	<b>Application No.</b> 10/811,469	<b>Applicant(s)</b> VERMEERSCH ET AL.	
	<b>Examiner</b> Sin J. Lee	<b>Art Unit</b> 1752	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 October 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 3-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Applicants canceled claim 2.

#### ***Claim Rejections - 35 USC § 103***

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 1-7,10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verschueren et al (EP 0 950 516 A1).

Verschueren teaches ([0026]) a heat mode imaging element (for making a lithographic printing plate) having on a lithographic *base with a hydrophilic surface* a first layer including an *aqueous alkaline solution-soluble polymer* and a top layer, which is IR sensitive and *unpenetrable for an alkaline developer* and which also contains a compound that increases the dynamic friction coefficient of the top layer to 0.40-0.80 (it is to be noted that present specification, pg.8 states that the present coating can be composed of two or more separately coated layers). As one of the examples for the latter compound, Verschueren teaches ([0029]) *water insoluble* inorganic compound having particle size of 0.3-50 um and having a *three-dimensional structure with siloxane bonds* extending three-dimensionally and with silicon atoms bonded to one organic group such as *methyl group*. Since the range of 0.3-50 um overlaps with present range of 1-7 um of claims 1, 10 and 11, the prior art's teaching would render present range *prima facie* obvious. In the case "where the [claimed] ranges overlap or lie inside ranges disclosed by the prior art," a *prima facie* case of obviousness would exist which may be overcome by a showing of unexpected results, In re Wertheim, 541 F.2d 257,

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191 USPQ 90 (CCPA 1976). Therefore, Verschueren render obvious present spacer particles (which are crosslinked poly alkylsiloxane). Since Verschueren's top layer is unpenetrable for an alkaline developer, it is the Examiner's position that it is impliedly taught that the top layer contains presently claimed developer resistance means.

Verschueren's top layer comprises an IR dye or pigment (see [0031]). Therefore, the prior art teaches present infrared light absorbing agent. In [0038], Verschueren teaches a novolac polymer as one of a few examples for the alkali soluble, hydrophobic binders used in Verschueren's first layer. Therefore, the prior art teaches present oleophilic resin soluble in an aqueous alkaline developer. Therefore, the prior art's teaching would render obvious present coating of claim 1 and thus present inventions of claims 1, 3, 5, 10, and 11 (it is the Examiner's position that Verschueren's *water insoluble* inorganic compound having a three-dimensional structure with *siloxane bonds* extending three-dimensionally and with silicon atoms bonded to one organic group such as *methyl group* would inherently be capable of improving the scuff-mark resistance of the coating as presently recited in claims 10 and 11).

With respect to present claim 4, Verschueren teaches ([0034] and [0041]) that the total amount of his top layer ranges from 0.05-10 g/m<sup>2</sup> and that the total amount of his first layer ranges from 0.1 to 10 g/m<sup>2</sup>, thus giving 0.15-20 g/m<sup>2</sup> in total. Since the latter range overlaps with present range of 0.6-2.8 g/m<sup>2</sup>, the prior art's teaching would render present range *prima facie* obvious. In re Wertheim, supra. Therefore, the prior art's teaching renders obvious present invention of claim 4.

With respect to present claim 6, Verschueren teaches the amount of his compound that increases the dynamic friction coefficient of the top layer to be 20-400 mg/m<sup>2</sup> preferably (see [0029]). Since this range overlaps with present range of 5-200 mg/m<sup>2</sup>, the prior art's teaching would render present range *prima facie* obvious. In re Wertheim, supra. Therefore, the prior art's teaching renders obvious present invention of claim 6.

With respect to present claim 7, since Verschueren's compound that increases the dynamic friction coefficient of the top layer contains a *three-dimensional structure* with *siloxane bonds* extending three-dimensionally and with silicon atoms bonded to one organic group such as *methyl group* (i.e., the compound contains crosslinked polymethylsiloxane units), it is the Examiner's position that Verschueren's compound would inherently act as present developer resistance means. Therefore, Verschueren's teaching renders obvious present invention of claim 7.

4. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verschueren et al (EP 0 950 516 A1) in view of applicants' admitted prior art (pg.4, lines 31-33).

Applicants state (pg.4, lines 31-33) that it is a typical industrial process that after coating and drying, the lithographic thermal printing plate materials are stacked with or without an interleave in between the plates and that those plates are handled in packaging equipment for cutting and packaging. Therefore, it is the Examiner's position that Verschueren in view of applicants' admitted prior art renders obvious present inventions of claims 8 and 9.

***Response to Arguments***

5. Applicants argue that the data set forth in the specification does establish unexpected superior results associated with the claimed particle size range of 1-7  $\mu\text{m}$ . However, present Example 9 (which uses P-05 having *particle size of 6  $\mu\text{m}$* , which lies within the claimed range) does not show *unexpected superior* results when compared to Comparative Example 2 (which uses CP-01 having particle size of 0.5  $\mu\text{m}$ ); the rating for the scuff-mark resistance is "3" for Example 9 and the rating for Comparative Example 2 is 4. Even applicants call the rating of 4 as "a ***relatively*** unacceptable result" (see under "Discussion" in applicants' REMARKS). Therefore, the Examiner disagrees with applicants' argument that the results of using particles having a size range of 1-7  $\mu\text{m}$  are unexpected superior in terms of the scuff-mark resistance.

For the reasons set forth above, present rejections still stand.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

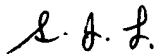
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

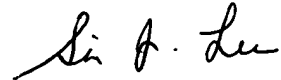
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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



S. Lee  
January 6, 2006



**SIN LEE**  
**PRIMARY EXAMINER**